

PROGRAMME

PHYSICS

Mechanics & Properties of Matter

Units of measurement. Simple measurement rules. Force. Moments. The lever and its applications. Friction. Work. Energy. Simple Machines. Density and Specific Gravity. Fluid Pressure. Boyle's Law. Principle of Archimedes. Hydrometers. Barometers. Pressure Gauges. Pumps. Blood Pressure measurement. Molecular state in solids, liquids and gases. Liquids and gases in motion. Atomisers. Filter and Sprengel pumps. Elasticity. Cohesion. Adhesion. Capillarity. Viscosity, illustrated by examples.

Heat

Thermometers. Thermal expansion and applications. Calories. British Thermal Units. Therm. Specific Heat and Latent Heat and applications. Conduction and Radiation and application. Heat as a form of energy.

Light

Illuminating power. Intensity of Illumination. Requisites for various types of work. Photometers and Light Meters. Reflection of Light. Properties of plane and curved mirrors. Refraction. Prisms and Lenses. Optical instruments including the eye and its defects. Ophthalmoscope. The spectrum and colour.

Sound

Nature of Sound. Resonance. Beats. Units for measurement of sound intensity. Limits of audibility. Supersonics.

Magnetism and Electricity

Properties of Magnets. The Electromagnet. The simple phenomena of Electrostatics. Primary and Secondary Cells. Magnetic, chemical and heating effects of a current. Ohm's Law. Ammeters and Voltmeters. Electromagnetic induction. Dynamo. Motor. Transformer. The discharge through gases. X-rays.



UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

Session 1959-60

CANADIAN SURGICAL
TRADE ASSOCIATION
COURSE

P80 - 0220
(28)

CANADIAN SURGICAL TRADE ASSOCIATION COURSE

Mondays—Physics	30 lectures
Tuesdays—Anatomy	30 lectures

The Education Committee of the Canadian Surgical Trade Association, in co-operation with the Division of University Extension, University of Toronto, offers two subjects in a technical educational plan for employees in the surgical and hospital field. It is anticipated that other subjects will be offered in subsequent years. All applications for enrolment will be reviewed by the Education Committee.

Each class will be limited to 35 students.

ANATOMY

LECTURERS: Dr. J. W. A. Duckworth and
Dr. K. O. McGaughey,
Department of Anatomy,
University of Toronto.

PLACE: Room 101, Anatomy Building
(immediately south of Archives building).

TIME: 7 p.m., beginning Tuesday, October 20.
Fall term ends December 22, Winter term
begins January 5 and ends May 17.

FEE: \$50.00.

PHYSICS

LECTURER: Dr. R. Richmond,
Department of Physics,
University of Toronto.

PLACE: Room 132 McLennan Laboratory.

TIME: 7 p.m., beginning Monday October 19, Fall
term ends December 21, Winter term begins
January 4 and ends May 16.

FEE: \$50.00

REGISTRATION:

By mail or in person at Room 207, 65 St. George Street,
9 a.m. to 5 p.m. daily except Saturdays. Additional applica-
tion forms may be obtained by writing The Director,
University Extension, 65 St. George Street, Toronto 5.

PROGRAMME

ANATOMY

1. The Tissues of the Body.
2. The Skeleton. Skull and Vertebral Column.
3. The Skeleton. The Shoulder and Pelvic Girdles. The Limbs.
4. The Joints. Types of joint and functions.
5. The Muscles. Types of Muscle.
6. The Vascular System. The Heart.
7. The Vascular System. The Blood Vessels.
8. The Lymphatic System.
9. The Digestive System. Mouth. Pharynx and Oesophagus.
10. The Digestive System. Stomach. Liver. Bile passages and Pancreas.
11. The Digestive System. Small Intestine. Large Intestine. Rectum.
12. The Urinary System. Kidney. Ureter. Bladder and Urethra.
13. The Genital System in the Male. The Testis. Vas deferens. Seminal Vesicles and Ejaculatory Ducts. Hernia.
14. The Female Genital System. The Ovary. Uterine Tube. Uterus and Vagina. Hernia.
15. The Nervous System. General description of the Brain.
16. The Nervous System. The Meninges. The Circulation of the Cerebro-spinal fluid.
17. The Cranial Nerves.
18. The Spinal Cord.
19. The Nervous System. A typical Spinal Nerve. The Brachial and Lumbar Plexuses and their general distribution.
20. The Eye and Visual Pathway.
21. The Ear and Auditory Pathway.
22. The Glandular System.
23. The Respiratory System. Nose. Pharynx. Larynx. Trachea. Bronchi.
24. The Respiratory System. Lungs and Pleural Sacs.
25. The Anatomy of the Skin.
26. General Development of the Embryo, I.
27. General Development of the Embryo, II.
28. Surface Anatomy of Head and Neck, and Upper Limb.
29. Surface Anatomy of Abdomen, Thorax and Lower Limb.
30. Reserve Lecture.

During this course attention will be drawn to the instruments used in the investigations and operations carried out on the various regions.